Chapter 1

Errata for MPI-2

This document was processed on May 20, 1998.

The known corrections to MPI-2 are listed in this document. All page and line numbers are for the official version of the MPI-2 document available from the MPI Forum home page at `http://www.mpi-forum.org`. Information on reporting mistakes in the MPI documents is also located on the MPI Forum home page.

- Page 24, lines 20-21 read
  MPI_FINALIZE is collective on MPI_COMM_WORLD.
  but should read
  MPI_FINALIZE is collective over all connected processes. If no processes were spawned, accepted or connected then this means over MPI_COMM_WORLD; otherwise it is collective over the union of all processes that have been and continue to be connected.

- Page 27, line 26 reads
  must be added to line 3 of page 54.
  but should read
  must be added to line 3 of page 52.

- Page 69, lines 14-15 read
  ```
  MPI::Datatype MPI::Datatype::Resized(const MPI::Aint lb,
  const MPI::Aint extent) const
  ```
  but should read
  ```
  MPI::Datatype MPI::Datatype::Create_resized(const MPI::Aint lb,
  const MPI::Aint extent) const
  ```

- Page 94, line 29 reads
  are the original sets of of processes.
  but should read
  are the original sets of processes.

- Page 162, lines 43–44 curently read
  The "in place" option for intracommunicators is specified by passing the value MPI_IN_PLACE to the argument sendbuf at the root.

but should read
The "in place" option for intracommunicators is specified by passing the value MPI_IN_PLACE to the argument sendbuf at all processes.

- Page 165, lines 4–22 read

IN	sendcounts	integer array equal to the group size specifying the number of elements to send to each processor (integer)
IN	sdispls	integer array (of length group size). Entry j specifies the displacement in bytes (relative to sendbuf) from which to take the outgoing data destined for process j
IN	sendtypes	array of datatypes (of length group size). Entry j specifies the type of data to send to process j (handle)
OUT	recvbuf	address of receive buffer (choice)
IN	recvcounts	integer array equal to the group size specifying the number of elements that can be received from each processor (integer)
IN	rdispls	integer array (of length group size). Entry i specifies the displacement in bytes (relative to recvbuf) at which to place the incoming data from process i
IN	recvtypes	array of datatypes (of length group size). Entry i specifies the type of data received from process i (handle)

but should read

IN	sendcounts	integer array equal to the group size specifying the number of elements to send to each processor (array of integers)
IN	sdispls	integer array (of length group size). Entry j specifies the displacement in bytes (relative to sendbuf) from which to take the outgoing data destined for process j (array of integers)
IN	sendtypes	array of datatypes (of length group size). Entry j specifies the type of data to send to process j (array of handles)
OUT	recvbuf	address of receive buffer (choice)
IN	recvcounts	integer array equal to the group size specifying the number of elements that can be received from each processor (array of integers)
IN	rdispls	integer array (of length group size). Entry i specifies the displacement in bytes (relative to recvbuf) at which to place the incoming data from process i (array of integers)
IN	recvtypes	array of datatypes (of length group size). Entry i specifies the type of data received from process i (array of handles)

- Page 250, line 8 reads
  with 15 exponent bits, bias = +10383, 112 fraction bits,
  but should read
  with 15 exponent bits, bias = +16383, 112 fraction bits,

- Page 273, line 24 reads

  ```
  void Send(void* buf, int count, const MPI::Datatype& type,
  ```

  but should read

  ```
  void Send(const void* buf, int count, const MPI::Datatype& type,
  ```

- Page 332, lines 23-24 read

  ```
  MPI::Datatype MPI::Datatype::Resized(const MPI::Aint lb,
  const MPI::Aint extent) const
  ```

  but should read

  ```
  MPI::Datatype MPI::Datatype::Create_resized(const MPI::Aint lb,
  const MPI::Aint extent) const
  ```

- Page 354, line 17 reads

```
void Get_version(int& version, int& subversion);
```

but should read

```
void Get_version(int& version, int& subversion)
```

- Page 354, lines 25-30 read

```
Exception::Exception(int error_code);

int Exception::Get_error_code() const;

int Exception::Get_error_class() const;

const char* Exception::Get_error_string() const;
```

but should read

```
Exception::Exception(int error_code)

int Exception::Get_error_code() const

int Exception::Get_error_class() const

const char* Exception::Get_error_string() const
```

- Page 357, line 24 reads
  MPI_CART_RANK `Cartcomm` `Get_rank` `int rank`
  but should read
  MPI_CART_RANK `Cartcomm` `Get_cart_rank` `int rank`

- Page 359, line 27 reads
  MPI_TOPO_TEST `Comm` `Get_topo` `int status`
  but should read
  MPI_TOPO_TEST `Comm` `Get_topology` `int status`